

SEQUENCE LISTING

<110> Singh, Yogendra
Khanna, Hemant

<120> A NOVEL PROTEIN MOLECULE USEFUL FOR
INHIBITION OF ANTHRAX TOXIN

<130> 4752 103.1 US

<150> 09/821,348

<151> 2001-03-29

<160> 6

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 735

<212> PRT

<213> Artificial Sequence

<220>

<223> Derived from B. anthracis.

<400> 1

Glu	Val	Lys	Gln	Glu	Asn	Arg	Leu	Leu	Asn	Glu	Ser	Glu	Ser	Ser	Ser	1	5	10	15
Gln	Gly	Leu	Leu	Gly	Tyr	Tyr	Phe	Ser	Asp	Leu	Asn	Phe	Gln	Ala	Pro	20	25	30	
Met	Val	Val	Thr	Ser	Ser	Thr	Thr	Gly	Asp	Leu	Ser	Ile	Pro	Ser	Ser	35	40	45	
Glu	Leu	Glu	Asn	Ile	Pro	Ser	Glu	Asn	Gln	Tyr	Phe	Gln	Ser	Ala	Ile	50	55	60	
Trp	Ser	Gly	Phe	Ile	Lys	Val	Lys	Lys	Ser	Asp	Glu	Tyr	Thr	Phe	Ala	65	70	75	80
Thr	Ser	Ala	Asp	Asn	His	Val	Thr	Met	Trp	Val	Asp	Asp	Gln	Glu	Val	85	90	95	
Ile	Asn	Lys	Ala	Ser	Asn	Ser	Asn	Lys	Ile	Arg	Leu	Glu	Lys	Gly	Arg	100	105	110	
Leu	Tyr	Gln	Ile	Lys	Ile	Gln	Tyr	Gln	Arg	Glu	Asn	Pro	Thr	Glu	Lys	115	120	125	
Gly	Leu	Asp	Phe	Lys	Leu	Tyr	Trp	Thr	Asp	Ser	Gln	Asn	Lys	Lys	Glu	130	135	140	
Val	Ile	Ser	Ser	Asp	Asn	Leu	Gln	Leu	Pro	Glu	Leu	Lys	Gln	Lys	Ser	145	150	155	160
Ser	Asn	Ser	Arg	Lys	Lys	Arg	Ser	Thr	Ser	Ala	Gly	Pro	Thr	Val	Pro	165	170	175	
Asp	Arg	Asp	Asn	Asp	Gly	Ile	Pro	Asp	Ser	Leu	Glu	Val	Glu	Gly	Tyr	180	185	190	
Thr	Val	Asp	Val	Lys	Asn	Lys	Arg	Thr	Phe	Leu	Ser	Pro	Trp	Ile	Ser	195	200	205	
Asn	Ile	His	Glu	Lys	Lys	Gly	Leu	Thr	Lys	Tyr	Lys	Ser	Ser	Pro	Glu	210	215	220	
Lys	Trp	Ser	Thr	Ala	Ser	Asp	Pro	Tyr	Ser	Asp	Phe	Glu	Lys	Val	Thr				

225	230										235				240	
Gly	Arg	Ile	Asp	Lys	Asn	Val	Ser	Pro	Glu	Ala	Arg	His	Pro	Leu	Val	
				245					250					255		
Ala	Ala	Tyr	Pro	Ile	Val	His	Val	Asp	Met	Glu	Asn	Ile	Ile	Leu	Ser	
			260					265					270			
Lys	Asn	Glu	Asp	Gln	Ser	Thr	Gln	Asn	Thr	Asp	Ser	Gln	Thr	Arg	Thr	
			275				280					285				
Ile	Ser	Lys	Asn	Thr	Ser	Thr	Ser	Arg	Asp	Ala	Asn	Thr	Val	Gly	Val	
			290				295				300					
Ser	Ile	Ser	Ala	Gly	Tyr	Gln	Asn	Gly	Phe	Thr	Gly	Asn	Ile	Thr	Thr	
305					310					315					320	
Ser	Ala	Gly	Phe	Ser	Asn	Ser	Asn	Ser	Ser	Thr	Val	Ala	Ile	Asp	His	
				325					330					335		
Ser	Leu	Ser	Leu	Ala	Gly	Glu	Arg	Thr	Trp	Ala	Glu	Thr	Met	Gly	Leu	
			340					345					350			
Asn	Thr	Ala	Asp	Thr	Ala	Arg	Leu	Asn	Ala	Asn	Ile	Arg	Tyr	Val	Asn	
			355				360					365				
Thr	Gly	Thr	Ala	Pro	Ile	Tyr	Asn	Val	Leu	Pro	Thr	Thr	Ser	Leu	Val	
			370				375					380				
Leu	Gly	Lys	Asn	Gln	Thr	Leu	Ala	Thr	Ile	Lys	Ala	Lys	Glu	Asn	Gln	
385				390						395					400	
Leu	Ser	Gln	Ile	Leu	Ala	Pro	Asn	Asn	Tyr	Tyr	Pro	Ser	Lys	Asn	Leu	
				405					410					415		
Ala	Pro	Ile	Ala	Leu	Asn	Ala	Gln	Asp	Asp	Phe	Ser	Ser	Thr	Pro	Ile	
			420					425					430			
Thr	Met	Asn	Tyr	Asn	Gln	Phe	Leu	Glu	Leu	Glu	Lys	Thr	Lys	Gln	Leu	
			435				440					445				
Arg	Leu	Asp	Thr	Asp	Gln	Val	Tyr	Gly	Asn	Ile	Ala	Thr	Tyr	Asn	Phe	
			450			455				460						
Glu	Asn	Gly	Arg	Val	Arg	Val	Asp	Thr	Gly	Ser	Asn	Trp	Ser	Glu	Val	
465				470						475					480	
Leu	Pro	Gln	Ile	Gln	Glu	Thr	Thr	Ala	Arg	Ile	Ile	Phe	Asn	Gly	Lys	
				485				490						495		
Asp	Leu	Asn	Leu	Val	Glu	Arg	Arg	Ile	Ala	Ala	Val	Asn	Pro	Ser	Asp	
			500					505					510			
Pro	Leu	Glu	Thr	Thr	Lys	Pro	Asp	Met	Thr	Leu	Lys	Glu	Ala	Leu	Lys	
			515				520					525				
Ile	Ala	Phe	Gly	Phe	Asn	Glu	Pro	Asn	Gly	Asn	Leu	Gln	Tyr	Gln	Gly	
			530			535				540						
Lys	Asp	Ile	Thr	Glu	Phe	Asp	Phe	Asn	Phe	Asp	Gln	Gln	Thr	Ser	Gln	
545				550						555					560	
Asn	Ile	Lys	Asn	Gln	Leu	Ala	Glu	Leu	Asn	Ala	Thr	Asn	Ile	Tyr	Thr	
				565					570					575		
Val	Leu	Asp	Lys	Ile	Lys	Leu	Asn	Ala	Lys	Met	Asn	Ile	Leu	Ile	Arg	
			580													

Ile Ser Asn Pro Asn Tyr Lys Val Asn Val Tyr Ala Val Thr Lys Glu
 690 695 700
 Asn Thr Ile Ile Asn Pro Ser Glu Asn Gly Asp Thr Ser Thr Asn Gly
 705 710 715 720
 Ile Lys Lys Ile Leu Ile Phe Ser Lys Lys Gly Tyr Glu Ile Gly
 725 730 735

<210> 2
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Derived from B. anthracis.

<400> 2
 Asp Ala Asn Thr Val Gly Val Ser Ile Ser Ala Gly Tyr Gln Asn Gly
 1 5 10 15
 Phe Thr Gly Asn Ile Thr Thr
 20

<210> 3
 <211> 23
 <212> PRT
 <213> Bacillus anthracis

<400> 3
 Thr His Thr Ser Glu Val His Gly Asn Ala Glu Val His Ala Ser Phe
 1 5 10 15
 Phe Asp Ile Gly Gly Ser Val
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<210> 4
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic.

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 atcactaca 69

<210> 5
 <211> 110
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic.

<400> 5
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 aattgaaact cctacagtat tagcatccct acttgtagaa gtattttttac 110

<210> 6

<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic.

<400> 6
gtgattaata aagcttctaa ttc

23